

Message

From: Martin, Allen D [Allen.Martin@ncdenr.gov]
Sent: 2/18/2021 6:52:53 PM
To: Strynar, Mark [Strynar.Mark@epa.gov]
Subject: RE: [External] RE: Publishing

Hey Mark,

Sure thing. I'm free..just let me know.

Allen

From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Thursday, February 18, 2021 1:31 PM
To: Martin, Allen D <Allen.Martin@ncdenr.gov>
Subject: RE: [External] RE: Publishing

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Allen,

Do you have time now? I have been in the lab since we got in at 10 AM with a delayed start.

Mark

From: Martin, Allen D <Allen.Martin@ncdenr.gov>
Sent: Thursday, February 18, 2021 10:59 AM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: RE: [External] RE: Publishing

Good Morning Mark

I'm free after 1pm. Just let me know.

Allen

From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Wednesday, February 17, 2021 2:03 PM
To: Martin, Allen D <Allen.Martin@ncdenr.gov>
Subject: RE: [External] RE: Publishing

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Hi Allen,

How is your tomorrow afternoon? I have AM meeting and lab work. With the projected ice storm I may stay home and have no lab work.

Mark

From: Martin, Allen D <Allen.Martin@ncdenr.gov>

Sent: Friday, February 12, 2021 9:49 AM

To: Strynar, Mark <Strynar.Mark@epa.gov>

Subject: RE: [External] RE: Publishing

Hey Mark,

No worries. I know everything has been turned upside down with the pandemic.

Next week I'm free Tuesday/Thursday afternoon or Wednesday all day. Just let me know what works for you. I'll start getting all of the data together.

To my knowledge we have not collected anything from Swans Creek. We did get one sample across the Cape Fear from Chemours. I'm not 100% sure of the location, I'll have to look but it was an isolated body of water.

Physically the foam is quite odd, it will only partially condense back into a liquid. The first foam samples we received I was able to invert the bottle and the foam plug actually prevented the liquid on top from falling.

I'm starting to imagine it as a layer that's traveling down the water surface and bubbles are forming during agitation. All of these bubbles then collect in areas of debris and form really large pillows of foam. I don't think the PFASs is creating the foam, I think there's something else mixed with the PFASs.

One of the residents on Marshwood Lake has seen appearances of foam in her driveway during rain events. It doesn't happen every time it rains though. She was actually able to collect some foam one time and it contains PFASs. Waste management has sampled the soil in that area and it was basically non-detect.

Talk to you soon,

Allen

From: Strynar, Mark <Strynar.Mark@epa.gov>

Sent: Friday, February 12, 2021 7:23 AM

To: Martin, Allen D <Allen.Martin@ncdenr.gov>

Subject: RE: [External] RE: Publishing

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Hi Allen,

Sorry for the slow reply I have been swamped in the lab and: Ex. 6 Personal Privacy (PP) which shut us down as of yesterday AM. I have been scrambling to get things situated. As an FYI as of yesterday I have purchased a Thermo TSQ Quantis QQQ for my lab. Hopefully to be delivered in about a month and installed asap after that.

I am glad to have this discussion at your convenience. As I really cant do any lab work I am home expect for a short visit today to the facility. If it is next week I am only in Tuesday-Thursday. I guess the thing I am wondering is if the bubble are from PFAS, or if the PFAS are associating with what is making the bubbles. If you were to acidify the sample I expect PFAS would be unchanged but the foam may go away. The send way I have condense foam way back in my soil scientist days was to add a drop if iso-octanol as I recall.

I know you shared data in the past but I have not looked at it recently. Do you get any of this foam in the Swans Creek or tributaries across the other side of Rt. 87?

Mark

From: Martin, Allen D <Allen.Martin@ncdenr.gov>
Sent: Wednesday, February 10, 2021 8:53 AM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: RE: [External] RE: Publishing

Good Morning Mark,

I hope you're doing well. Now that we're through all of the holidays, I wanted to circle back and touch base with you.

Originally we got reports of foam in the Grays Creek area, which we sampled. I believe I sent you some of that data. More recently we received reports of foam in the Marshwood lake area and in Willis Creek. All of the foam that I have analyzed to date contains significant amounts of PFASs and shares a similar profile. The foam itself is quite odd in that it never fully condenses back into a liquid. As it sits it will partially condense but foam always remains.

I was in the field earlier this week sampling so I could see it for myself. There is a steady flow of tiny bubbles coming down Willis Creek. The foam appears in spots were debris has collected. I imagine it acts as a sieve for the foam to pile up at.

If you have some time in your schedule maybe next week I would like to get together and discuss. I can share all of the data that I have and all of the sites we have sampled.

Let me know what you think.

Allen

From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Wednesday, December 9, 2020 12:01 PM
To: Martin, Allen D <Allen.Martin@ncdenr.gov>
Subject: [External] RE: Publishing

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Absolutely for sure this would be a cool spot to focus some attention on. Glad to do so.

Mark

From: Martin, Allen D <Allen.Martin@ncdenr.gov>
Sent: Wednesday, December 09, 2020 9:22 AM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Subject: Publishing

Mark,

I wanted to run something past you. I recently reached out to the department to verify there was no issue with publishing in peer reviewed journals - they gave me got a tentative sign off. Coming from a commercial background myself, publishing wasn't an option as everything we generated was considered proprietary.

I think this situation in the Grays Creek area will yield an interesting story as it unfolds. Would you be interested in working together to bring something to publication?

Let me know what you think.

Allen